Docket No. AUS920030646US1

CLAIMS:

What is claimed is:

1.   A computer system, comprising:

a first processor connected as a server;

a plurality of client processors connected to communicate with said first processor;

a filesystem connected to be accessed from said first processor and said plurality of client processors; and

a set of instructions configured to run on said computer system, wherein when a first portion of said filesystem is found to be corrupt, said set of instructions are connected to:

receive information regarding a location of said first portion and a perceived corruption,

isolate said first portion of said filesystem while leaving other portions of said filesystem available, and

provide repair for said filesystem.

2.   The computer system of Claim 1, wherein said set of instructions receives said information from a scout process that traverses the filesystem looking for corruption.

3.   The computer system of Claim 1, wherein said set of instructions receives said information from a thread operating as part of an application program and said set

of instructions further comprises restoring values recently changed by said thread and restarting said thread.

4.   The computer system of Claim 1, wherein said set of instructions uses a lock to block said portion of said filesystem.

5.   A method of operating a computer system, comprising the steps of:

    receiving information regarding a first portion of a filesystem and a detected corruption in said first portion of said filesystem;

    isolating said first portion of said filesystem while leaving other portions of said filesystem available, and

    providing for a repair of said first portion of said filesystem.

6.   The method of Claim 5, wherein said information is received from a scout process that traverses the filesystem to detect corruption.

7.   The method of Claim 5, wherein said information is received from a thread running in an application program and further comprising the steps of:

    placing said thread in a waiting state;

    restoring values recently changed by said thread;
and

Docket No. AUS920030646US1

restarting said thread after said repair is completed.

8.   The method of Claim 5, wherein said placing step comprises releasing all exclusive holds on resources.

9.   The method of Claim 5, wherein said blocking step uses a lock on said portion of said filesystem.

10.   A computer program product on a computer readable medium, said computer program product comprising:

first instructions for receive information regarding (a) a first portion of a filesystem, and (b) a detected corruption within said first portion of said filesystem;

second instructions for isolating said first portion of said filesystem while leaving other portions of said filesystem available, and

third instructions for providing repair for said filesystem.

11.   The method of Claim 10, wherein said first instructions receive said information from a scout process that traverses the filesystem looking for corruption.

12.   The method of Claim 10, wherein said first instructions receive said information from a thread run by an application program and said method further comprises fourth instructions for restoring values

Docket No. AUS920030646US1

recently changed by said thread and fifth instructions for restarting said thread.

13. The method of Claim 10, wherein said second instructions use a lock on said portion of said filesystem.